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PATENT ABSTRACTS OF JAPAN(21) Application number: **07125923**(51) Intl. Cl.: **G11B 9/00**(22) Application date: **26.04.95**

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(71) Applicant: **CANON INC**(43) Date of application
publication: **12.11.96**(72) Inventor: **KURODA AKIRA
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states:

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(54) DEVICE AND METHOD FOR PROCESSING INFORMATION

(57) Abstract:

PURPOSE: To facilitate operation, to make the whole device compact and to make possible integration by bringing a tip of a needle into contact with a recording layer, softening the recording layer surface with the heat caused by voltage application and forming a recording bit of a recessed structure.

CONSTITUTION: A recording medium 201 is constituted so as to provide the recording layer 203 on a substrate 202 having conductivity, and material softening by a temp. rise, e.g. thermoplastic resin of a softening temp. of 100°C is used as the recording layer 203. Conductive material having a melting point of 1000°C or above, e.g. metal/semiconductor material is used as the probe needle 204, the substrate 202. Then, the probe needle 204 tip is brought into contact with the recording layer 203 surface, and a recording pulse voltage is applied, and a current is made to flow between the probe 204 and the substrate 203. The temp. of the recording layer 203 is raised partially by the heat caused by the current to be softened. Succeedingly, the needle tip is pushed into the recording layer by repulsive force acting between with the recording layer to form the recording bit 205 having the recessed structure.

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